

FIGURE 1

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*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
MATTQSCQSRSSACSKAAACFPAAVAVDEEHGHSHQKGGAAQEEAENDNNKPELRRGPW
M-----RKGW
MGRPPCC-----DKVGVKKGPW
MDK-----KQLCNTSQD-PEVRKGPW
MDK-----K-LGNTSHD-PEVRKGPW
MDK-----KPCDSS-HD-PEVRKGPW
MDK-----KQCKTSQD-PEVRKGPW
MST-----IAKRDLSNEESEEELRRGPW
M-----DGKGAR--SSNTLLSSEDEM-----DLRRGPW
M-----DEKGAR--SSNTLLSCEDEM-----DLRRGPW
MST-----SKSVSSSEDDNELRRGPW
MST-----SKSVSSSEDDNELRRGPW
MGRPPCC-----DKEGVKKGPW
MDK-----KPC-NSSQD-PEVRKGPW
1

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60

SEQ ID NO:10
 SEQ ID NO:14
 SEQ ID NO:26
 SEQ ID NO:30
 SEQ ID NO:32
 SEQ ID NO:34
 SEQ ID NO:36
 SEQ ID NO:42
 SEQ ID NO:44
 SEQ ID NO:46
 SEQ ID NO:48
 SEQ ID NO:50
 SEQ ID NO:54
 SEQ ID NO:63

```

**      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
TVDEDLTLVNYIADNGEGRWNNLARAAGLK---RTGKSCRLRWLNLYLRPDVKGNGFSADE
TEQEDVQLVWFVRLLGERRWDFLAKVSG---LQMSGKSCRLRWVNLYHPGLKGRMSPEE
TPEEDMLVSYIQEHGAGNWRVPTNTGLM---RCSKSCRLRWLNLYLRPDVKGNGFTPEE
TMEEDLILINYIANHGEVWNSLAKAAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TMEEDLILITYIANHGEVWNSLAKAAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
IMEEDLILINYIANHGEVWNSLAKASGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TMEEDLILMNYIANHGEVWNSLAKAAAGLK---RNGKSCRLRWLNLYLRPDVRRGNITPEE
TLEEDSLLIHYIARHGEGRWNLAKSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TVDEDLTLINYVATHGEGRWNTLALSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TVDEDLTLINYIATHGEGRWNTLALSAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE
TLEEDNLLSQYIFNHGEGRWNLAKRSGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE

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SEQ ID NO:10
 SEQ ID NO:14
 SEQ ID NO:26
 SEQ ID NO:30
 SEQ ID NO:32
 SEQ ID NO:34
 SEQ ID NO:36
 SEQ ID NO:42
 SEQ ID NO:44
 SEQ ID NO:46
 SEQ ID NO:48

FIGURE 1 CONTINUED

SEQ ID NO: 50	TLEEDNLLSQYISSHGEGRWNLLAKRSLK---RTGKSCRLRWLNLYLKPDVKRGNLTPQE	61
SEQ ID NO: 54	TPEEDIILVSYIQEHGPGNWRVPAKTGLS---RCSKSCRLRWLNLYLRPGIKRGNFTEQE	
SEQ ID NO: 63	TMEEDLILINYIANHGEVWNSLAKAAAGLK---RTGKSCRLRWLNLYLRPDVRRGNITPEE	120

SEQ ID NO: 10	QLLILDLHTRWGNRWSKIAQHLPGRTDNEIKNYWTRVQKHAKQLNCDANSKRFKDA---	
SEQ ID NO: 14	ERMVVQLHAKLGNRWSRIAKSIPGRTDNEIKNYWTRHLRK---LKLKQKQKQSDDD---	
SEQ ID NO: 26	EKLIVHLQALLGNRWAAIASYLPERTDNDIKNYWNTHLKKLKKMQAAGGEDSGAASEG	
SEQ ID NO: 30	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQKHIKQAE-N-FQQQISN----	
SEQ ID NO: 32	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQKHILKQAS-SSFQQQSSN----	
SEQ ID NO: 34	QLLIELHAKWGNRWSKIAKHLPGRTDNEIKNFWRTRIQKHIKQAE-TSQQHGNSS----	
SEQ ID NO: 36	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNYWTRIQKHIKQAE-N-FQQQSSN----	
SEQ ID NO: 42	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRIQKQARQLNIESGSKRFIDA---	
SEQ ID NO: 44	QLLILELHAKWGNRWSKIAQYLPGRTDNEIKNYWTRVQKHAKQLKCDVNSKQFKDT---	
SEQ ID NO: 46	QLLILELHAKWGNRWSKIAQYLPGRTDNEIKNYWTRVQKHAKQLKCDVNSKQFKDT---	
SEQ ID NO: 48	QLLILELHAKWGNRWSKIAQHLPGRTDNEIKNYWTRIQKQARHLKIYTDSEFQEL---	
SEQ ID NO: 50	QLLILELHAKWGNRWSKIAQNLPGRTDNEIKNYWTRIQKQARHLKIDTDTREFQEL---	
SEQ ID NO: 54	EKMIIHLQDLLGNRWAAIASYLPQRTDNDIKNYWNTHLRKKLKKMQAGGEG-----	
SEQ ID NO: 63	QLLIMELHAKWGNRWSKIAKHLPGRTDNEIKNFWRTRIQKHIKQVD-NPNQQNFQKQK---	121

SEQ ID NO: 10	-----MRYLWMPHLADDVDTIAAANDDD-EDHHNLRLLVLHHHQAQ	
SEQ ID NO: 14	-----HH-----NDNDDDDDRNSS-SSSSSSNSNSNLQQQPQ-	
SEQ ID NO: 26	GGGRGDGDDGGKSVKAAAPKGQWERRLQTDIHTARQALRDALS-----LDHPDPSPAT	
SEQ ID NO: 30	-----NSEINDHQAS---TSHVSTMAEPMETYSPPF	
SEQ ID NO: 32	-----SEIYHPQAC---TSQVSTMAQPIETYSPPS	
SEQ ID NO: 34	-----ENSNDHQASNS-TSKVSTMAHPNETFSSPS	

FIGURE 1 CONTINUED

SEQ ID NO: 36	-----NSEINDHQAS---TSHVSTMAEPMEMYSPPC	181
SEQ ID NO: 42	-----XKCFWMPRLLOK---MEQSNP---SPHHSSM-----TNMM	
SEQ ID NO: 44	-----MRYIWMPLRVE-----RI-QATAAASAPQVTVPPRP	
SEQ ID NO: 46	-----MYLXXXKARG-THSSSGDGPRN-HHRNCGRHQQCIHLRXQP	
SEQ ID NO: 48	-----VRRFWMPRLLOK---AKESSNNM-SIQNQAIPMPFDYVSQHL	
SEQ ID NO: 50	-----VRRFWMPRCFKK---PKNH-----LLQPCQFKTRQL	
SEQ ID NO: 54	-GSFGEFSASRQI-----PRQWERRLOTDIQMAKRALSEALSPKPKPSCLASNSNP	
SEQ ID NO: 63	-----MS-----LEINDHHHHHPHQPSSSQVSNLVEPMETYSPTS	240

SEQ ID NO: 10	HLQAAAAAGGAANDLAAGAYDVRQL---HALPSSGMAATSSSDSLASESYDDGGLLFAN	
SEQ ID NO: 14	-----PEDE-----SSASGSLQAQHEDQHQLFLH-PLWNDDIIIVDVCWSSSTNVVA	
SEQ ID NO: 26	AAAAATPAGSSAA---YASSADNIARLLQGWMR--PGGGGGGNGKGPEA---SGSTST	
SEQ ID NO: 30	YQGML-----YQGML-----EPFSS-----	
SEQ ID NO: 32	YQATF-----YQATF-----DPFS-----	
SEQ ID NO: 34	YQATF-----YQATF-----EPFQ-----	
SEQ ID NO: 36	YQATF-----YQATF-----EPFST-----	
SEQ ID NO: 42	NLGNSG---EASMSMSSSFNINPSMSSSPKGNLLWM---MP-----NHF-	
SEQ ID NO: 44	-----TMHTPTTEAT	
SEQ ID NO: 46	YTTKFEVLNHKGRMGLTDPVANNDVGVSHVTQRYPTPENSTGASSDSFGTQVSTISD	
SEQ ID NO: 48	TVGTIPPWQGPCMNEAGPTYMDQHEQTQTRNTNNGSCISLSESANIPKVP-----QHFG	
SEQ ID NO: 50	L-----CLLMV---FLS-----IQL-----	
SEQ ID NO: 54	SSSFSTKPTTTQSVCYASSADNIARMLKGWMKNPPKSSRTNSSMTQNSFNLAGADTA	
SEQ ID NO: 63	YQGT-----EPF-P-----	300

FIGURE 1 CONTINUED

SEQ ID NO:10	LRAGMLMDGGDWAAQQEADQGL-----WPPPPPPPSDLDQSVVQAAGAGAGQFQ-----D
SEQ ID NO:14	PP-----PM-----PAS---
SEQ ID NO:26	TATTQQQPQCSGEGAASA-----SASASQSGAAAAATAQT-----PECS
SEQ ID NO:30	-----IQFP-----T
SEQ ID NO:32	-----IQFP-----T
SEQ ID NO:34	-----QFL-----Q
SEQ ID NO:36	-----QFP-----T
SEQ ID NO:42	-----KYYVQ-----PHQSI PRF-----LPIFTAT-----
SEQ ID NO:44	L-----ITTNSRFTITRA-----
SEQ ID NO:46	LTENSSVPENTNSADY--YQPSQISNY---SDNCITSPSGFLFPQGLDLQSM-----
SEQ ID NO:48	HTTITQFHAL-----NTNDFGTFTYEGYN--VNNNVYEMDNFKTTTWWAEDAQYPIGDCQ
SEQ ID NO:50	---LGPYHHI---HT-----PLG---
SEQ ID NO:54	CSSGAKGPLSSAELSENNFESL----FDFDQSLESSNDQFSQSLS-----PEAT
SEQ ID NO:63	-----TQFP-----T

FIGURE 1 CONTINUED

SEQ ID NO:10	MELSGWV-----QGFSEITDNFWALEEIKMQ.-----
SEQ ID NO:14	---PLWDID-----DAFFCSDYSLPLWG.-----
SEQ ID NO:26	TETSK---MATGGGAGGAPAFSMLESWLLDDGGGMLMDVVPLGDPSEFF
SEQ ID NO:30	INPDQ-----SSCCTNDNNNSINYWSMEDIWSMQLLN---GD.----
SEQ ID NO:32	-NPHH-----SSCCTNDNNNSINYWSMEDIWSMQL-A---NY.----
SEQ ID NO:34	SMINQ-----VVVPATT-----TIGASRISGRLC---NYSMEIN
SEQ ID NO:36	INPDQ-----SSCCTNDNNN-INYWSMEDSWSMQLLN---G-----D
SEQ ID NO:42	-----KWG-----
SEQ ID NO:44	-PNTPWNNMQSGDSSDN-----FWDVESMLFLEQQL-----MNDNM-
SEQ ID NO:46	MVGSNWV-----NNDFACNMWNMDLWQFSKLQ-----K
SEQ ID NO:48	-----RDLV.-----
SEQ ID NO:50	VLQDE---SKPDINIAAEIMPFSLLEKWLLEAGCQEKLVGCCGDAK-FF
SEQ ID NO:54	INNDH-----HQNSNCCANDNNNN-NYWSMEDIWSMQLLN---G-----D
SEQ ID NO:63	